



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10**

1200 Sixth Avenue, Suite 900
Seattle, WA 98101-3140

OCT - 6 2016

OFFICE OF
COMPLIANCE AND ENFORCEMENT

Reply To: OCE-127

Certified Mail Return Receipt Requested

CT Corporation System
Registered Agent for Ardagh Glass, Inc.
505 Union Ave SE Suite 120
Olympia, WA 98501

Re: Requirement to Provide Information Pursuant to Section 114 of the Clean Air Act

Dear Sir or Madam:

The enclosed Information Request is being issued to you pursuant to Section 114 of the Clean Air Act (CAA), 42 U.S.C. § 7414. The Information Request applies to Ardagh Glass, Inc., and its operations in Seattle, Washington.

Under Section 114 of the CAA, EPA is authorized to require the submission of records, reports, and other information for the purpose of determining whether any violations of the CAA have occurred and for other purposes of the CAA. This includes the authority to require the sampling of emissions. In accordance with this authority, you are hereby served the enclosed Information Request, and required to provide the requested information and documents in accordance with and in the time frames specified by the enclosed instructions. Please submit your written response to:

John Keenan
U.S. Environmental Protection Agency
1200 Sixth Avenue, Suite 900 Mail Stop: OCE-101
Seattle, Washington 98101

Please sign and return the enclosed Statement of Certification with your responses to this Information Request.

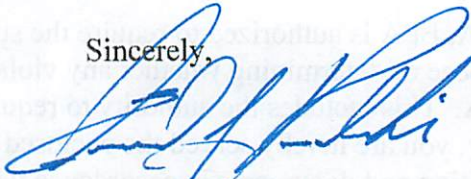
Compliance with this Information Request is mandatory. Failure to respond fully and truthfully to this Information Request in a timely manner may lead to civil action to obtain compliance or to recover a civil penalty of not more than \$44,539 per day of violation, or both, in accordance with Section 113 of the CAA, 42 U.S.C. § 7413. Responses that are incomplete, ambiguous, or evasive may be treated as noncompliance with this Information Request. In addition, providing false, fictitious or fraudulent statements or representations may subject you to criminal liability. Even if you fully comply with this Information Request, you may still be subject to administrative, civil, or criminal action as provided by the CAA.

The information requested must be submitted whether or not you regard all or part of it as a trade secret or confidential information. You may, if you desire, assert a claim of business confidentiality covering all or part of the information submitted, as provided in Section 114(c) of the CAA, 42 U.S.C. § 7414(c), and 40 C.F.R. Part 2, Subpart B. All information claimed as confidential should be contained on separate sheet(s) and should be clearly identified as "confidential," "trade secret," or "proprietary." Please note that you bear the burden of substantiating your confidentiality claim. Unless you make a claim at the time you submit the information in the manner described in 40 C.F.R. § 2.203(b), it may be made available to the public by EPA without further notice to you. Information subject to a business confidentiality claim may be disclosed by EPA only to the extent and pursuant to the procedures set forth in 40 C.F.R. Part 2, Subpart B. You should read the above-cited statutes and regulations carefully before asserting a business confidentiality claim because certain categories of information are not entitled to confidential treatment. In particular, emissions data, which includes information necessary to determine the identity, amount, frequency, concentration, or other characteristics (to the extent related to air quality) of emissions data, are not entitled to confidential treatment.

This required submission of information is not subject to the approval requirements of the Paperwork Reduction Act of 1980, 44 U.S.C. § 3501, et seq.

Thank you for your cooperation in this matter. Any technical questions regarding this Information Request should be directed to John Keenan at (206) 553-1817; for legal matters, contact Julie Vergeront, Office of Regional Counsel, at (206) 553-1497.

Sincerely,



Edward J. Kowalski
Director

Enclosures

Ardagh Glass, Inc. Information Request

Definitions

All terms used in this Information Request, including Attachments A and B, will have their ordinary meaning unless such terms are defined below, elsewhere in this Information Request, in the Clean Air Act (CAA), 42 U.S.C. § 7401 *et seq*, or in 40 C.F.R. Parts 60 or 63. For purposes of this Information Request:

1. “Facility” means the source owned by Ardagh Glass, Inc. and located at 5801 E Marginal Way S, Seattle, Washington.
2. “Glass manufacturing metal HAP” means an oxide or other compound of any of the following metals included in the list of urban HAP for the Integrated Urban Air Toxics Strategy and for which Glass Manufacturing was listed as an area source category: arsenic, cadmium, chromium, lead, manganese, and nickel.
3. “Process Data” means, at a minimum, the following:
 - fuel usage (cubic feet/hour),
 - electric boost usage (kW),
 - glass pull rate (tons/hr),
 - raw materials type and feed rate (lb/hr),
 - bridgwall temperature (degrees Fahrenheit),
 - oxygen flow rate (dry standard cubic feet/minute or dscf/min) or air flow rate (dscf/min), as applicable, and
 - percent cullet usage (by color).

Emission Testing and Reporting

1. **Performance Testing:** Within 120 days of receipt of this Information Request, Ardagh must conduct performance testing of each furnace at the Facility that is charged with one or more glass manufacturing metal HAPs.
 - a. If a furnace is not used to producing glass with one or more glass manufacturing metal HAPs on the date of receipt of this information request but begins producing glass with one or more glass manufacturing metal HAPs within one year of receipt of this Information Request, Ardagh must conduct performance testing of that furnace within 60 days of producing glass with one or more glass manufacturing metal HAPs.
 - b. Testing must be conducted according to the requirements of EPA Publication, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, also known as SW-846¹, Method 0061 (M0061) and its emissions test protocol/plan referred to in Paragraph 2 below for both hexavalent chromium and total chromium and as follows:
 - i. Conduct three test runs on each furnace stack with each run lasting a minimum of four hours;
 - ii. Conduct simultaneous testing of all stacks on any furnace with more than one stack;
 - iii. Conduct the testing while producing the product normally produced in that furnace that contains the highest percentage of chromium by weight in the raw materials.

¹ <https://www.epa.gov/hw-sw846/sw-846-compendium>

Ardagh Glass, Inc. Information Request

- iv. If the furnace is equipped with an air pollution control device, conduct simultaneous testing on the inlet and outlet to the control device.
2. Advance Notification and Test Protocol: By no later than 90 days before any performance test required by Paragraph 1 above is conducted, or unless EPA agrees in writing to some other time period, Ardagh must provide notice of its intent to conduct such test to EPA. This notification must include the scheduled date of the test, and a complete emissions test protocol/plan. If EPA requires any adjustment of the emissions test protocol/plan or operating conditions, EPA will notify Ardagh within 30 days of receipt of the notice, and Ardagh must make the required adjustments to its emissions test protocol/plan and conduct the performance test in conformity with the modified emissions test/protocol plan. The emissions test protocol/plan must, at a minimum, include and address the following elements:
 - a. Purpose and scope of testing;
 - b. Source description, including a description of the operating scenarios and mode of operation during testing;
 - c. Details regarding the glass proposed for production during the testing, including the batch ticket or recipe, and the basis for selection of that specific product based on chromium content;
 - d. Schedule/dates of testing;
 - e. All Process Data must be collected and reported at the frequency collected by the Facility, with a minimum frequency of at least one data point per hour;
 - f. Sampling and analysis procedures, specifically requesting approval for any proposed alternatives to the reference test methods, and addressing minimum test length and minimum sample volume;
 - g. Calculations used to estimate the required volume, molarity, and potential for hydrogen (pH) of potassium hydroxide needed to conduct M0061 testing on each furnace and overall.
 - h. Specific actions planned in order to obtain potassium hydroxide solution for use in the testing with the lowest possible background concentration of hexavalent chromium.
 - i. Detailed procedures to be used to monitor the pH of the absorbing solution (potassium hydroxide) during performance of M0061 runs.
 - j. Proposed sample gas extraction flow rate.
 - k. Sampling location description and proposed means of compliance with the reference test methods;
 - l. Appropriate piping and instrumentation diagrams depicting all proposed testing locations with the precise proposed sample collection point marked;
 - m. Analysis procedures and laboratory identification;
 - n. Quality assurance plan including Data Quality Objectives;
 - o. Calibration procedures and frequency;
 - p. Sample recovery and field documentation;
 - q. Chain of custody procedures;
 - r. Quality Assurance (QA)/Quality Control (QC) project flow chart;
 - s. Data processing and reporting;
 - t. Description of data handling and QC procedures; and
 - u. Report content and timing.
3. Collection of Process Data: By no later than 90 days before any performance test required by Paragraph 1 above is conducted, or unless EPA agrees in writing to some other time period, Ardagh must begin collection of the Process Data to be collected under its emissions test protocol/plan at the

Ardagh Glass, Inc. Information Request

frequencies specified in such plan. Ardagh must continue collection of such Process Data for 30 days following the completion of such performance testing.

4. **Report of Performance Testing Results:** Within 60 days after conducting each performance test required under Paragraphs 1, above, Ardagh must submit to EPA a written report documenting the results of the performance test that includes, at a minimum, the following information:
- a. General identification information for the Facility including a mailing address, the actual address, the owner or operator or an appropriate representative and an email address and phone number for this person;
 - b. Identification of the emission point being tested, performance test dates, pollutant(s) being measured, the units of the standard or the pollutant emissions units;
 - c. A detailed process description, including details on the glass produced during testing (product name and any identifying code, and recipe or batch details including both raw materials added and frit or cullet used);
 - d. A complete unit description, including a description of feed streams and control devices, the appropriate source classification code (SCC), and the permitted maximum process rate (where applicable) of the unit;
 - e. Summary page including emission results, expressed in units of:
 - a. pounds (lb) hexavalent chromium/hour (hr),
 - b. lb total chromium/hr,
 - c. lbs hexavalent chromium/ton of production,
 - d. lbs total chromium/ton of production,
 - e. milligrams (mg) hexavalent chromium/cubic meter (m^3) at 7% oxygen, and
 - f. mg total chromium/ m^3 at 7% oxygen.
 - f. Sampling site description; description of sampling and analysis procedures and any modifications to standard procedures; and quality assurance procedures;
 - g. Record of operating conditions during the test, including operating parameters for which emissions are being measured; record of preparation of standards; and record of calibrations;
 - h. All Process Data proposed for collection in the emissions test protocol/plan;
 - i. Raw data sheets from field sampling;
 - j. Raw data sheets from field and laboratory analyses;
 - k. Chain-of-custody documentation;
 - l. Explanation of laboratory data qualifiers;
 - m. Documentation of the determination of Method Detection Limit;
 - n. Example calculations of all applicable stack gas parameters, emission rates, and analytical results, as applicable. The report must include a description of all assumptions made in conducting the calculations and the basis for all data used in the calculations. Sufficient detail must be provided to enable EPA to duplicate the calculations using basic input data. In particular, this level of detail must be provided for calculations performed in determining emission rates measured during testing;
 - o. Identification information for the company conducting the performance test, including a contact person and his/her email address; and
 - p. Any other information required by the test method, a relevant standard, emissions test protocol/plan, or EPA.
5. **Report other data:** Within 60 days of completion of the testing of each furnace, and concurrent with the test report required in Section 3 above, provide the following to EPA:

Ardagh Glass, Inc. Information Request

- a. The batch recipe of the glass manufactured during the testing, including the pounds of flint cullet, brown cullet, and green cullet added as part of the feed;
 - b. The name of the color of glass manufactured during the testing;
 - c. A table (electronically in Excel format) of the daily values of the Process Data collected in accordance with Paragraph 3 above for the 90 days prior to and 30 days after testing of the furnace;
6. Sample: Within 60 days of completion of the testing of each furnace, and concurrent with the test report required in Paragraph 3 above, provide a sample of the product made by the furnace during the test period (e.g., one bottle).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

IN THE MATTER OF:

Ardagh Glass, Inc.
Seattle, Washington

Respondent.

STATEMENT OF CERTIFICATION

I, _____, hereby certify that the enclosed response to the above-captioned Information Request is true, accurate, and complete. I certify that the portions of this response which I did not personally prepare were prepared by persons acting on behalf of the Respondent, under my supervision and at my instruction, and that the information provided is true, accurate, and complete. I make this certification both on my own behalf, and on behalf of the Respondent, as its authorized representative.

Dated: _____

Signature: _____

Printed Name: _____

Title: _____